Monthly Operation and Maintenance Status Report — October 2013, Velsicol Chemical/Pine River Site, Operable Unit 1, St. Louis, Michigan

Tom Alcamo/USEPA

FROM: CH2M HILL

DATE: November 26, 2013

This technical memorandum was prepared to satisfy the monthly reporting requirements of Work Assignment No. 173-LRLR-0532 for the Velsicol Chemical Superfund Site, Operable Unit 1 (OU1), in St. Louis, Michigan (Site). This technical memorandum provides a brief background and description of the dense non-aqueous phase liquid/groundwater (DNAPL/GW) collection system, a summary of the monthly activities associated with operations and maintenance (O&M) of the system, weekly and monthly system pumping and waste removal volumes, the results of equipment and shoreline inspections, description of maintenance activities performed during the reporting period, generator copies of the uniform hazardous waste manifests, and upcoming activities associated with the system.

System Background and Description

In July 2002, DNAPL was encountered within a natural sand and gravel channel incised into the glacial till in the Hot Spot Cell. Approximately 2,700 gallons of DNAPL were removed from the sand and gravel channel and transported offsite for disposal at a hazardous waste disposal facility. Additionally, DNAPL was also found during the excavation of Area 3. In response to the discovery of the DNAPL, the DNAPL/GW collection system and a protective cap were installed in the remedial area in 2002. The purpose of the system is to collect the residual DNAPL left within sand seams in the glacial till and to protect the river from residual contamination present on the former plant site.

The DNAPL/GW collection system consists primarily of the collection trenches, collection laterals, and three manholes. The manholes consist of a 5-foot sump installed in the middle of each trench segment to facilitate removal of DNAPL by pumping. The trenches and trench laterals were constructed of 4-inch-diameter perforated high-density polyethylene (HDPE) piping sloped back toward each manhole. The trenches were filled with 2 feet of stone fill, followed by compacted granular fill, after placement of the HDPE pipe.

The protective cap consists of a 6-inch layer of protective sand, a 40-mil textured HDPE geomembrane, a second 6-inch layer of protective sand (placed over the geomembrane), followed by a minimum 2-foot layer of compacted clay. The protective cap was placed over the entire slope and the clay was integrated into the clay placed on the floor of the remedial cells.

The DNAPL/GW collection system was designed and constructed to enable the removal of contaminated groundwater from the DNAPL collection trench manholes as a hydraulic

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gradient control measure and to facilitate DNAPL flow into the DNAPL collection trenches. Wastewater from system operations are collected in storage tanks for subsequent offsite disposal.

DNAPL/GW Collection System Operation Maintenance

The DNAPL/GW collection system O&M activities for the October 2013 operations period were completed in accordance with the requirements and procedures described in the updated draft *Site Management Plan - DNAPL/Groundwater Collection System, Velsicol Chemical Superfund Site, Operating Unit #2, St. Louis, Michigan* (CH2M HILL, 2013). The DNAPL/GW collection system O&M activities were performed on a weekly basis for the October 2013 reporting period. This report describes these system activities and the results of the O&M activities are discussed below.

System Operations

Weekly operations of the DNAPL/GW collection system were completed on October 2, 9, 15, 23, and 30 2013. Groundwater pumped from the manholes was directed to the onsite wastewater storage tanks. The volume of water pumped from each system manhole on the operation dates during the reporting period, as well as project-to-date volume totals, are summarized in Table 1. Completed copies of the weekly system operations data forms are included in Attachment 1.

Date	MH-1	MH-2	MH-3	Total
10/02/2013	6,033	6,484	5,324	17,841
10/09/2013	8,266	7,173	5,316	20,755
10/15/2013	4,535	5,769	4,771	15,075
10/23/2013	6,325	6,289	4,943	17,557
10/30/2013	7,316	5,990	0	13,306
Monthly volume	32,475	31,705	20,354	84,534
Project-to- date total	987,457	908,743	687,483	2,583,683

Maintenance

Routine maintenance during the reporting period included the following:

• The weekly DNAPL/GW collection system component inspections were completed on October 2, 9, 15, 23, and 30, 2013. The system component inspections were completed satisfactorily with no deficiencies noted with the exception of the pump at MH-1 tripping during operations on October 2.

- The monthly shoreline inspection was completed on October 9 and 23, 2013. No signs of erosion or DNAPL and/or groundwater seeps were noted during the inspection.
- Pump bearing lubrication was completed at all centrifugal pumps during the reporting period.
- The secondary containment pad was dewatered multiple times during the reporting period to remove accumulated precipitation.

Completed copies of the weekly system inspections forms and the monthly shoreline inspection form are included in Attachment 2.

Waste Disposal Activities

On November 30, 2009, CH2M HILL received signed copies of the wastewater

documentation from the work assignment manager (draft uniform hazardous waste manifest, land disposal restriction, underlying hazardous constituent forms, and waste approval form) and initiated wastewater shipments.

Wastewater was transported from the site on the dates shown on Table 2 by US Ecology Michigan (waste transporter) to their facility in Detroit, Michigan. US Ecology Michigan assumed generator status of wastewater and transported it to the disposal facility. A total of 89,996 gallons of wastewater were removed from the site during the reporting period as summarized in Table 2.

A uniform hazardous waste manifest was generated for each hazardous waste shipment from the site. Generator copies of the uniform hazardous waste manifests are included in Attachment 3.

TABLE 2 Wastewater Transporta Disposal Volumes ^a	tion and
Date	V
40/00/0040	

Date	Volume
10/03/2013	17,724
10/10/2013	19,093
10/17/2013	18,506
10/24/2013	17,612
10/31/2013	17,061
Monthly total	89,996
Project-to-date total	2,659,453

Note:

Upcoming Activities

- Submittal of uniform hazardous waste manifests to the Michigan Department of Environmental Quality Waste and Hazardous Materials Division.
- Weekly system operation will be completed during the next reporting period.

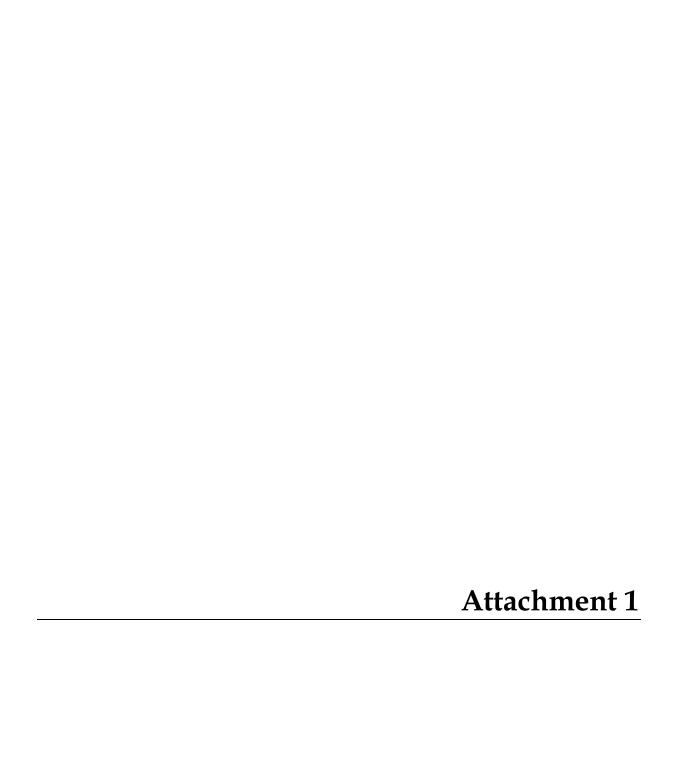
Attachments

Attachment 1: Weekly system operations data forms

Attachment 2: System inspection forms

Attachment 3: Uniform hazardous waste manifests – generator copies

^aAll volumes reported are in gallons.



DNAPL/GW Collection System Weekly Data Sheet Vetslcol Pine River Site St. Louis, Michigan

	Date: 10/2/13	
	Date:	
	MH-1 Groundwater Removal	
Initial Totalizer Reading (gallons)	2518407	
Final Totalizer Reading (gallons)	2524,448	
Total Volume Removed (gallons)	6033	
Time start:	1404	21 Am 1
Time stop:	1658	
	MH-2 Groundwater Removal	
Initial Totalizer Reading (gallons)	2511923	
Final Totalizer Reading (gallons)	2518707	
Total Volume Removed (gallons)	6484	
Time start:	1148	
Time stop:	# 1350	
	MH-3 Groundwater Removal	
Initial Totalizer Reading (gallons)	2506599	
Final Totalizer Reading (gallons)	2,511,923	
Total Volume Removed (gallons)	5324	
Time start:	0950	
Time stop:	1130	

DNAPL/GW Collection System Weekly Data Sheet Velsicol Pine River Site St. Louis, Michigan

Inspector:	50

10/2/13

MH-1	Intial	Post Pumping
Depth to groundwater (feet below top of manhole)	8'7"	
Relative River Elevation (feet below top of manhole)	7'11"	NA
DNAPL Thickness (feet)	28''	NA
Total Sump Depth (feet below top of manhole)	441,11	NA

MH-2	Intial	Post Pumping
Depth to groundwater (feet below top of manhole)	35+ 9'101	900
Relative River Elevation (feet below top of manhole)	18	NA
DNAPL Thickness (feet)	٥	NA
Total Sump Depth (feet below top of manhole)	42'9'	NA

MH-3	Intial	Post Pumping
Septh to groundwater (feet below top of manhole)	7'5"	16'1"
Relative River Elevation (feet below top of manhole)	6'1"	NA
DNAPL Thickness (feet)	231	NA
Total Sump Depth (feat below top of manhole)	43'11	NA

DNAPL/GW Collection System Weekly Data Sheet Vetalcol Pine River Site St. Louis, Michigan

St. Louis, Michigan

	MH-1 Groundwater Removal
Initial Totalizer Reading (gallons)	2595195
Lines Loranzas Keacuril (Aerrone)	3 4 2
Final Totalizar Reading (gallons)	2595195
	10 0
	,,
Total Volume Removed (gallons)	200
Time start:	1340
Time stop:	1532
	MH-2 Groundwater Removal
	move disculations removed
Initial Totalizar Reading (gallons)	2529756
, and the same of	
Final Totalizer Reading (gallons)	2536929
	7173
Total Volume Removed (gallons)	
	111
Time start:	7114
Time stop:	1330
	MH-3 Groundwater Removal
	2124 440
Initial Totalizer Reading (gallons)	3,524,448
	2 029 7560
Final Totalizer Reading (gallons)	2,529,756
	1211
Tatal Valume Removed (gellans)	5316
TOTAL TOTAL OF THE PARTY OF THE	
	2919
Time start:	1056
	11566
Time stop:	1/03/

DNAPL/GW Collection System Weekly Data Sheet Velsicol Pine River Site St. Louis, Michigan

Inspector:		

1		Post Pumping
MH-1	tritial	73.
pepth to groundwater (feet below top of manhole)	3'9"	16.11
Relative Rivar Elevation (feet below top of manhole)	7'6"	NA. "
DNAPL Thickness (feet)	18"	NA NA
Total Sump Depth (feet below top of manhole)	44'1"	· · · · · ·
Market Market Control of the Control		196 19

WH-5	trittal	Post Pumping
pepth to groundwater (feet below top of manhole)	G 12'11"	22811
Relative River Elevation (feet below top of manhote)	vo'	NA.
DNAPL Thickness (feet)	0	NA NA
Total Sump Depth (feet below top of manhole)	42'911	NA

		015
мн-з	tritlel	Post Pumping
epth to groundwater (feet below top of manhole)	7'9'1	15/111
Relative River Elevation (feet below top of manhole)	60"	NA
DNAPL Thickness (feet)	23"	NA NA
Total Sump Depth (feet below top of menhole)	43/11"	NA

DNAPL/GW Collection System Weekly Data Sheet Vetslool Pine River Site St. Louis, Michigan

Inspector:

	Date: 10/15/13	
	MH-1 Groundwater Removal	
initial Totalizer Reading (gallons)	2555735	
Final Totalizer Reading (gallons)	2,560,276	
Total Volume Removed (gallons)	4535	
Time start:	1305	
Time stop:	1415	
	MH-2 Groundwater Removal	
Initial Totalizer Reading (gallons)	2549966	
Final Totalizer Reading (gallons)	2555,735	
Total Volume Removed (gallons)	5769	
Time start:	1108	
Time stop:	1254	
	MH-3 Groundwater Removal	
Initial Totalizer Reading (gallons)	2545/95	
Final Totalizer Reading (gallons)	2,549,966	
Total Volume Removed (gallons)	4771	
Time start:	09/2	
	0942	

DNAPL/GW Collection System Weekly Data Sheet Velaicel Pine River Sita St. Louis, Michigan

Inspector:	
7.1	

Date: 10/15/13

MH-1	intial	Post Pumping
Depth to groundwater (feet below top of manhole)	28/7/1	1411
Relative River Elevation (feet below top of manhole)	71111	NA
DNAPL Thickness (feet)	2811	NA
Total Sump Depth (feet below top of manhole)	44'1"	NA

MH-2	Intial	Post Pumping
Depth to groundwater (feet below top of manhole)	10'2"	20'11"
Relative River Elevation (feet below top of manhole)	ng1	NA
DNAPL Thickness (feet)	NIX/O	NA
Total Sump Depth (feet below top of manhole)	42'9"	NA

MH-3	Intial	Post Pumping
Depth to groundwater (feet below top of manhole)	7'7"	15'5"
Relative River Elevation (feet below top of manhole)	6'1"	NA
DNAPL Thickness (feet)	23"	NA
Total Sump Depth (feat below top of manhole)	43'11'	NA

DNAPL/GW Collection System Weekly Data Sheet Velotool Pine River Sito St. Louis, Michigan

Inspector:

	Dete: 10/23/13
	MH-1 Groundwater Removal
Initial Totalizer Reading (gallons)	2571502
Final Totalizar Reading (gallons)	2577827
Total Volume Removad (gallons)	7325
Time start	1430
Time stop:	1612
	MH-2 Groundwater Removal
Initial Totalizer Reading (gallons)	2-565213
Final Totalizer Reading (gallons)	2571502
Total Volume Removed (gallons)	6289
Time stert:	1219
Time stop:	1418
	MH-3 Groundwater Removel
tnitiat Totalizer Reading (gallons)	2,560,270
Final Totalizer Reading (gallons)	2565,213
Total Volume Removed (gellions)	4943
Time start:	1025
Time stop:	1/57

DNAPL/GW Collection System Weekly Data Sheet Votation Pine River Site St. Louis, Michigan

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Inspector:			

19/23/13

16H-1	intiel	Post Pumping
Depth to groundwater (feet below top of manhole)	8'5"	15'2"
Relative River Elevation (feet below top of manhole)	81111	NA
DNAPL Thickness (feet)	2911	NA
Total Sump Depth (feet below top of manhole)	44'7'sof1	NA

18H-2	Intial	Post Puraping
Depth to groundwater (feet below top of menhole)	91811	21'7"
Relative River Elevation (feet below top of manhole)	-7'6"	NA
DNAPL Thickness (feet)	0	NA
Total Sump Depth (feet below top of manhole)	47 9 11	NA

MH-3	Intial	Post Pumping
Depth to groundwater (feet below top of manhole)	714"	151811
Relative River Elevation (feet below top of manhole)	5'311	NA
DNAPL Thickness (feet)	23"	NA
Total Sump Depth (feet below top of manhole)	43'11"	NA

DNAPL/GW Collection System Weekly Data Sheet Vetelcol Pine River Site St. Louis, Michigan

Time stop: 1320 1340	Totalizer Reading (gallons)		MH-1 Groundwater Removal
Time start: //30 Time start: //30 Time atop: //30 IIIH-2 Groundwater Removal //30 IIIH-2 Groundwater Removal //34 Final Totalizer Reading (gallons) //34 Total Volume Removed (gallons) //335 Time start: //335 IIIH-3 Groundwater Removal	Totalizer Reading (gallons)	oliici Tolelizer Readina (nalions)	2577828
Time start: //30 Time start: //30 Time atop: //30 IIIH-2 Groundwater Removal //30 IIIH-2 Groundwater Removal //34 Final Totalizer Reading (gallons) //34 Total Volume Removed (gallons) //335 Time start: //335 IIIH-3 Groundwater Removal	Totalizer Reading (gallons)		2,585,144
Time start: //30 IIIH-2 Groundwater Removal Initial Totalizer Reading (gallons) Total Volume Removed (gallons) Time start: //335 Itime start: //335	tert: //30 top: //30 IMH-2 Groundwater Removel Totalizer Reading (gallons) Totalizer Reading (gallons) Totalizer Reading (gallons) Totalizer Reading (gallons) MH-3 Groundwater Removel Totalizer Reading (gallons) Totalizer Reading (gallons) Totalizer Reading (gallons)	-mai i branzer readurid (denores)	
Time stop: 1320 1340	top: 1340 1340	Fotel Volume Removed (gallons)	7316
Time stop: 1320 1340	top: 1340 1340		
Initial Totalizer Reading (gallons) Total Volume Removed (gallons) Time start: Time stop: (nitial Totalizer Reading (gallons)	Totalizer Reading (gallons)	Time start:	
Initial Totalizer Reading (gallons) Final Totalizer Reading (gallons) Total Volume Removed (gallons) Time start: /335 Initial Totalizer Reading (gallons)	Totalizer Reading (gallons)		1330
Final Totalizer Reading (gallons) Total Volume Removed (gallons) Time start: /335 Time stop: ##H-3 Groundwater Removel Initial Totalizer Reading (gallons)	Totalizer Reading (gallons)		IIIH-2 Groundwater Removal
Final Totalizer Reading (gallons) Total Volume Removed (gallons) Time start: /335 Time stop: MH-3 Groundwater Removel Initial Totalizer Reading (gallons)	Totalizer Reading (gallons)	iniliai Tolelizar Rasding (gallons)	2,585,144
Total Volume Removed (gallons) Time start: /333 Time stop: MH-3 Groundwater Removel Initial Totalizer Reading (gallons)	Valume Removed (gallons) September 1/3/3/5 Hop: 1/3/3/5 1		1120 - 11
Time start: /335 Time stop: //// /// /// /// /// /// ///	tert: /335 top: //S33 IMH-3 Groundwater Removal Totalizer Reading (gallons) Totalizer Reading (gallons)	Final Totelizer Reading (gallons)	123 1 1,11
Time stop: /533 IMH-3 Groundwater Removal Initial Totalizer Reading (gallons)	Totalizer Reading (gallons) Totalizer Reading (gallons)	Total Volume Removed (gallons)	5990
Time stop: /533 IMH-3 Groundwater Removal Initial Totalizer Reading (gallons)	Totalizer Reading (gallons) Totalizer Reading (gallons)		
MH-3 Groundwater Removal (nitial Totalizer Reading (gallons)	Totalizer Reading (gallons) Totalizer Reading (gallons)	Time start:	1335
Initial Totalizer Reading (gallons)	Totalizer Reading (gallons) Totalizer Reading (gallons)	Time stop:	/533
Initial Totalizer Reading (gallons)	Cotalizer Reading (gallons)		MH-3 Groundwater Removal
Initial Totalizer Resung (gallons)	Cotalizer Reading (gallons)	VIII S. L. II. or Floor Son (sediment)	
10 11/26	2000ATE	Intest Totalizer Residing (galluns)	- 10 11126
Final Totalizer Reading (gallons)	/clume Removed (gallons)	Final Totalizer Reading (gallons)	DIII W
SORRAIC	/clume Removed (gallons)		SOCRATE
Total Volume Removed (gallons)		Total Volume Removed (gallona)	
	The state of the s		
Time start:	ASIT	fime sterc	
		Time stop:	
		Time stop:	
Time stop:	stop:	29	300
Time stop:	stop:		Y'1 "700
Time stop:	atop:	3	25%
Time stop:	stop:	7	116
Time stop:	stop:		/ 47 1 31

DNAPL/GW Collection System Weekly Data Sheet Volatical Pine River Site St. Louis, Michigan

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	10/ 10	
Date:	130/13	

68H-1	Intial	Post Pumping
Depth to groundwater (feet below top of manhole)	8'9"	15'8"
Relative Rivar Elevation (feat below top of manhole)	801 3	NA NA
DNAPL Thickness (feet)	8"	NA NA
Total Sump Depth (feet below top of manhote)	44 1 50M	NA

Intial	Post Pumping
10/11/	214."
18 feel	NA O SO
0	NA NA
12'9"	* TNA
	10/11

MH-3	Intial	Post Pumping
lepth to groundwater (feet below top of manhole)	DED DOS	eperate -
Relative River Elevation (feet below top of manhole)	07-	NA NA
DNAPL Thickness (feet)		NA .
Total Sump Depth (feet below top of manhole)		NA



	101	21	1,7	
Date:		1	13	
Date		-		

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Inspector/Operator_)/ V	

	S	U	Notes/ActionsTaken
Secxondary Containment Pad			
Control panel boxes secure with no evidence of tampering?	/		
Totalizer operation	/		
Discharge hose in good condition with no leaks present	/		
Tanks in good condition with no evidence of leaks or tampering?	/		
Secondary containment pad dewatering complete (as needed, can be accomplished in conjuntion with inspection/operation)?	1		minimo
Centrifigal (system booster pump) pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	/		
Heat trace operational? (cold weather only)	/		
Other/non-routine issues:			
MH-1 control station			
Gate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	1		Tripped Twice during of
Pump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)	/		
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	/		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		
Manhole cover secure and intact?	/		
Other/non-routine issues:			

10/2/2	- D
Date:	Inspector/Operator

Rating Evaluations: S = Satisfactory U = Unsatisfactory

	S	U	Notes/ActionsTaken
AALL O control station		0 = 0 /	
MH-2 control station	-	I	
Gate to manhole secure and locked?	/.		
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):			*GW LEVEL BEDD I MAKE AFTEN ZERS PRIMPING
Pump Box dry with no evidence of leaks?			
Pump box heater operational (Cold weather Only) Secondary Leak alarm status (S=no leak indicated; U=leak indicated)	1		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	/		
Manhole cover secure and intact?	/		
Other/non-routine issues:			
MH-3 control station			
Gate to manhole secure and locked?	1		
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	/		
Pump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)	/		
Secondary Leak alarm status (S=no leak Indicated; U=leak indiocated)	/		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	/		
Manhole cover secure and intact?	/		
Other/non-routine issues:			

	10/9/13
Date:	11111

Inspector/Operator_5H

	S	U	Notes/ActionsTaken
Secxondary Containment Pad			
Control panel boxes secure with no evidence of tampering?	/		
Totalizer operation	/		
Discharge hose in good condition with no leaks present	/,		
Tanks in good condition with no evidence of leaks or tampering?	/		
Secondary containment pad dewatering complete (as needed, can be accomplished in conjuntion with inspection/operation)?	1		in pragress
Centrifigal (system booster pump) pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		
Heat trace operational? (cold weather only)	-	4	•
Other/non-routine issues:			
MH-1 control station			
Gate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):			
Pump Box dry with no evidence of leaks?	1,		
Pump box heater operational (Cold weather Only)			
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	/	1	
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	/		
Manhole cover secure and intact?	/	1-1	
Other/non-routine issues:			

	10/1/12	
Date:	1711	

Inspector/Operator 5 1 6

Rating Evaluations: S = Satisfactory U = Unsatisfactory

	S	U			Notes/A	ctionsTaken	
MH-2 control station							
				*			
Gate to manhole secure and locked?							
Control panel boxes secure with no evidence of tampering?	1						
Pump and valve boxes in good repair with no evidence of tampering?							
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	1						
Pump Box dry with no evidence of leaks?	1						
Pump box heater operational (Cold weather Only)	/						
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	1					,	
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		**			5	
Manhole cover secure and intact?	/						
Other/non-routine issues:							
MH-3 control station							
Gate to manhole secure and locked?	1						
Control panel boxes secure with no evidence of tampering?	/					P	
Pump and valve boxes in good repair with no evidence of tampering?	/		Y				
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	1						
Pump Box dry with no evidence of leaks?	/,					2	
Pump box heater operational (Cold weather Only)	1						
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	1					. di∗	
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1,		2000				
Manhole cover secure and intact?							
Other/non-routine issues:							



	10/1/12
Date:	1/5/15

Inspector/Operator

	SU	Notes/ActionsTaken
Secxondary Containment Pad	- 1 - 1	
Control panel boxes secure with no evidence of		
tampering?		
Totalizer operation	/_	
Discharge hose in good condition with		
no leaks present	//	
Tanks in good condition with no evidence of leaks or tampering?		
or tampering r		
Secondary containment pad dewatering complete (as		
needed, can be accomplished in conjuntion with		
inspection/operation)?		
Centrifigal (system booster pump) pump lubrication (oil		
level and grease cup) (See ISMP, Appendix B)	-	
Heat trace energtional? (acid weather only)		
Heat trace operational? (cold weather only)	-/-	AND AND THE CONTROL OF THE CONTROL O
Other/non-routine issues:		
Calcimica roduno labada,	Company of the last	
MH-1 control station		
Gate to manhole secure and locked?	1	
Control panel boxes secure with no evidence of		4
tampering? Pump and valve boxes in good repair with no evidence of		
tampering?		
Submersible pump operation (if Unsatisfactory/abnormal,	/	
explain at right):	/	
Pump Box dry with no evidence of leaks?		
Pump box heater operational (Cold weather Only)		
Connection I sale plants status (Connection)		
Secondary Leak alarm status (S=no leak Indicated; U=leak indiocated)	1	
O-lean indiocated)		
Centrifigal pump lubrication (oil level and grease cup)		
(See ISMP, Appendix B)		
Manhole cover secure and intact?		
La sket mars to a		
Other/non-routine Issues:		

Date:	10	151	13	Inspector/Operator	5
			7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

Rating Evaluations: S = Satisfactory U = Unsatisfactory

	S	U	Notes/ActionsTaken
MH-2 control station			
Gate to manhole secure and locked?		C 1915	
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	1		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	/		
Pump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)	//		
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	1		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		
Manhole cover secure and intact?	/		*
Other/non-routine issues:			
MH-3 control station			
Gate to manhole secure and locked?	//		
Control panel boxes secure with no evidence of lampering?			
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):			
Pump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)			
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	1		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)			
Manhole cover secure and intact?	/		
Other/non-routine issues:			

Date: 19/0/5/1/3	Inspector/Operator_576	
		_

the site of the same of the sa	S	U	Notes/ActionsTaken
Secxondary Containment Pad			
Control panel boxes secure with no evidence of tampering?	/		
Totalizer operation	/		
Discharge hose in good condition with no leaks present	/		
Tanks in good condition with no evidence of leaks or tampering?	/		
Secondary containment pad dewatering complete (as needed, can be accomplished in conjuntion with inspection/operation)?	1		In progress
Centrifigal (system booster pump) pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		
Heat trace operational? (cold weather only)	-		
Other/non-routine issues:			
MH-1 control station			
Gate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	1		
Pump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)	/		
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	/		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		
Manhole cover secure and intact?	1		
Other/non-routine issues:			

10/23/13	51
Date:	Inspector/Operator

Rating Evaluations: S = Satisfactory U = Unsatisfactory

	S	U	Notes/ActionsTaken
MH-2 control station			
Sate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of ampering?	/		
rump and valve boxes in good repair with no evidence of ampering?	1		
ubmersible pump operation (if Unsatisfactory/abnormal, xplain at right):	1		
rump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)	/		
Secondary Leak alarm status (S=no leak indicated; J=leak indiocated)	/		
Centrifigal pump lubrication (oil level and grease cup) See ISMP, Appendix B)	/		
Manhole cover secure and intact?	/		
Other/non-routine issues:			
MH-3 control station			
Gate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of ampering?	/		
Pump and valve boxes in good repair with no evidence of lampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	1		
oump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)	/		
Secondary Leak alarm status (S=no leak indicated; J=leak indiccated)	1		
Centrifigal pump lubrication (oil level and grease cup) See ISMP, Appendix B)	1		
Manhole cover secure and intact?	/		
Other/non-routine issues:		c= = 34 = = =	

	101
Date:_	120/13

Inspector/Operator_5977

	S	U	Notes/ActionsTaken
Secxondary Containment Pad			
Control panel boxes secure with no evidence of tampering?	/-		
Totalizer operation			
Discharge hose in good condition with no leaks present	/		
Tanks in good condition with no evidence of leaks or tampering?	/		
Secondary containment pad dewatering complete (as needed, can be accomplished in conjuntion with inspection/operation)?	/		
Centrifigal (system booster pump) pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	1		
Heat trace operational? (cold weather only)	/		
Other/non-routine issues:			
MH-1 control station			
Gate to manhole secure and locked?			
Control panel boxes secure with no evidence of tampering?	/	1 12	
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	/		
Pump Box dry with no evidence of leaks?	/		
Pump box heater operational (Cold weather Only)			
Secondary Leak alarm status (S≔no leak indicated; U=leak indiccated)	/		
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	/		
Montholo course and intent?	_		
Manhole cover secure and intact?			

	10/201	17
Date:_	1301	13

Inspector/Operator____

Rating Evaluations: S = Satisfactory U = Unsatisfactory

	S	U	Notes/ActionsTaken
MH-2 control station	76		
Gate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of lampering?	/		
Pump and valve boxes in good repair with no evidence of ampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):	/		
Pump Box dry with no evidence of leaks?	//		
Pump box heater operational (Cold weather Only)	//	+	
Secondary Leak alarm status (S=no leak indicated; U=leak indiocated)	/	-	
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)	/		
Manhole cover secure and intact?	/		4
Other/non-routine issues:			
MH-3 control station	,	/	
Gate to manhole secure and locked?	/		
Control panel boxes secure with no evidence of tampering?	/		
Pump and valve boxes in good repair with no evidence of tampering?	/		
Submersible pump operation (if Unsatisfactory/abnormal, explain at right):			Did not apendo
Pump Box dry with no evidence of leaks?			
Pump box heater operational (Cold weather Only)			
Secondary Leak alarm status (S=no leak indicated; U=leak indicated)		-	
Centrifigal pump lubrication (oil level and grease cup) (See ISMP, Appendix B)			
Manhole cover secure and intact?			
Other/non-routine issues:			

Monthly Shoreline Inspection Form Velsicol Pine River Site

St. Louis, Michigan

Inspector:	5/8	
Date:	10/11/13	

The monthly shoreline inspection for the date indicated has been completed by the O&M operator. The shorline was free from signs of erosion as well as DNAPL or groundwater seeps, with the following exceptions. The locations noted on this inspection form have been staked in the field and the TTM has been notified.

Notes/Description
no doficiencial pord

Monthly Shoreline Inspection Form Velsicol Pine River Site

St. Louis, Michigan

Inspector:	54P	
Date:	19/23/13	

The monthly shoreline inspection for the date indicated has been completed by the O&M operator. The shorline was free from signs of erosion as well as DNAPL or groundwater seeps, with the following exceptions. The locations noted on this inspection form have been staked in the field and the TTM has been notified.

Location	Notes/Description
	no to percent noted



Plea	se pri	int or type. (Form design	ned for use on elite (12-pitch) typewri	ter.)				For	n Approved	d. OMB No	. 2050-0039
1		FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number	2, Page 1 c	of 3. Emergency Respons	LB510	4. Manifest	166	931	3 J	JK
		nerator's Name and Maili			Generator's Site Addres	s (if different t	han mailing addres	s)	HTF-		
П	7-	7 NEMCO WAY 9			324 NORTH STR		rear gran an				
П	er	IGHTON PLANS	40.7146	MI-48116	ST LOUIS			MI 466H			
Н	Gene 6 Tra	erator's Phone: ansporter 1 Company Nan	18-7 190				U.S. EPA ID N	Jumhar			
Ш		Ecology Mich					1		74259	565	
		ansporter 2 Company Nan					U.S. EPA ID N			0.00	
Ш							1				
		signated Facility Name ar					U.S. EPA ID N	Number			
Ш		LECOLOGY MICH RUGEORGIA ST.	IIGAN, MC								
П	DE.	TROIT			60 48	1211		MHD	374259	565	
П	Facili	ty's Phone: (313) 57	1-7140			7/1	A				
Ш	9a.	9b. U.S. DOT Descript and Packing Group (if	ion (including Proper Shipping Name, Hazai	rd Class, ID Number,	10. Conta	1	11. Total	12. Unit	13	. Waste Cod	les
	HM		AZARIDOLIS WASTE, LIDUID,	NATION TO VIDENTIFE ME	No.	Туре	Quantity	Wt./Vol.	move	loote	Inna
S.	X	CHLOROFORM	0. 9. PO III	PERSONAL PROPERTY.	1	11	adal	G	D018	0019	0022
K							000	9	D028	0029	0039
GENERATOR		2.									
9											
П					100000						
Ш		3.									
W			A.						-	-	+
Н											
		4.									
Ш											
Н	14 S	inecial Handling Instruction	ns and Additional Information								1
	1.6	201.0 NAZARDO	USWASTEWATER								
M		lan nantair	na D040 and D043								
10		TEST CONTEST	in boto and boto								
	15.	GENERATOR'S/OFFER	OR'S CERTIFICATION: I hereby declare th	at the contents of this consignmen	nt are fully and accurately d	lescribed abov	e by the proper sh	ipping nam	e, and are cl	assified, pac	kaged,
М			arded, and are in all respects in proper cond contents of this consignment conform to the			ational governr	mental regulations.	If export sh	nipment and	I am the Prir	mary
П		I certify that the waste mir	nimization statement identified in 40 CFR 26	62.27(a) (if I am a large quantity ge	enerator) or (b) (if I am a sn	nall quantity ge	enerator) is true.				
П	Gene	rator's/Offeror's Printed/T			ignature		- de tie to	7		onth Da	
†	10 1		from for ass	297		200	- JS. P	77			13
INTL		nternational Shipments	Import to U.S.	Export from		entry/exit:					
_		sporter signature (for exporter Acknowledgme			Date lea	ving U.S.:		_			
TEI		porter 1 Printed/Typed Na	ame	S	ignature	-	24	The same of the sa	Mo	onth Day	y Year
TRANSPORTER	1	HOHAZ	L 6 100	som !		-	V		-4	10 0	11/2
NS	Trans	sporter 2 Printed/Typed Na	ame	S	ignature				Mo	onth Da	y Year
TR/									- 1		
4	18. D	Iscrepancy									_
Ш	18a.	Discrepancy Indication Sp	vace Quantity	Туре	Residue		Partial Rej	ection		Full Re	ejection
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- ,					Manifest Reference	ce Number;					
5	18b. /	Alternate Facility (or Gene	erator)				U.S. EPA ID N	lumber			
ACI							1				
DE		ity's Phone: Signature of Alternate Fac	ility (or Generator)						TM	lonth Da	ay Year
ATE	100.	orginator of the fraction as	mily (or contract)						1."	1	1
SN SN	19 H	lazardous Waste Report M	Management Method Codes (i.e., codes for l	nazardous waste treatment dienne	sal and recycling systems						
DESIGNATED FACILITY	1,	Table Hole Heport N	2.	3.	and roofoling systems/		4.				
1		H077									
	20. D		or Operator: Certification of receipt of hazar	dous materials covered by the ma	nifest except as noted in Ite	em 18a					
	Printe	ed/Typed Name		S	ignature				M	onth Da	y Year
4									1		

UNIFORM HAZARDOUS						177 00000000000000000000000000000000000				
WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emergency Res	ponse Phone	4. Manifest	Tracking N	931	4 J	JK
5, Generator's Name and Mailin	g Address	MI 4811	16	Generator's Site Ad		than mailing addre	55)	ITE	MI 40	
Generator's Phone: 6. Transporter 1 Company Name	e					U.S. EPA ID I	Number			
US Ecology Michi							MIDO	774259	565	
7. Transporter 2 Company Name						U.S. EPA ID I	Number			
8. Designated Facility Name and						U.S. EPA ID I	Number			
U.S. ECOLOGY MICH 6520 GEORGIA ST. DETROIT				60	4621)	1	MIDO	74259	565	
Facility's Phone:	on (Including Proper Shipping Name,	Hazard Class ID Number	_	10.0	Containers	16 Total	10 1164			
HM and Packing Group (if a	any))			No:	Туре	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Cod	
X RO, NASBIZ, HI CHLOROFORM	AZARIDOUS WASTE, LID (), P. PS III	UID, N.O.S (BENZE	NE,	1	3.7	MAN	G	D018	D019	D03
2.								- /		
3.								-6		
4.										
	3 DD40 and D043	To the date of the White	5-01-1-t	Land Ellinary and annual	ofo accorded sh	726	laster was	A part are at	assified pas	leaand
15. GENERATOR'S/OFFERO marked and labeled/placa Exporter, I certify that the I certify that the waste min Generator's/Offeror's Printed/Ty	DR'S CERTIFICATION: I hereby dec rded, and are in all respects in prope contents of this consignment conforn himization statement identified in 40 C pped Name	er condition for transport acc in to the terms of the attache CFR 262.27(a) (if I am a larg	cording to appl ed EPA Acknow ge quantity ger	licable international a wledgment of Conser	nd national gover t.	nmental regulations	nipping nam . If export si	hipment and Mo	I am the Pri	mary y 1
15. GENERATOR'S/OFFERO marked and labeled/placa Exporter, I certify that the I certify that the waste min Generator's/Offeror's Printed/Ty	DR'S CERTIFICATION: I hereby dec rded, and are in all respects in prope contents of this consignment conforn imization statement identified in 40 0	er condition for transport acc in to the terms of the attache CFR 262.27(a) (if I am a larg	cording to appl ed EPA Acknow ge quantity ger	licable international a wledgment of Conser nerator) or (b) (if I am	nd national gover t.	nmental regulations	nipping nam lf export si	hipment and Mo	I am the Pri	mary y Y
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15. GENERATOR'S/OFFERO marked and labeled/placa Exporter, I certify that the I certify that the waste min Generator's/Offeror's Printed/Ty 16. International Shipments Transporter signature (for exporter 17. Transporter 17. Transporter 18. Transporter 19. Transporter 1	OR'S CERTIFICATION: I hereby decided, and are in all respects in proper contents of this consignment conformal initiation statement identified in 40 Cooped Name Import to U.S. orts only): Int of Receipt of Materials sime	er condition for transport acc in to the terms of the attache CFR 262.27(a) (if I am a larg	cording to appled EPA Acknow ge quantity ger Signature Signature Export from	licable international a wledgment of Consernerator) or (b) (if I am gnature U.S. Por Dat gnature Residu	nd national gover t. a small quantity t of entry/exit: a leaving U.S.:	nmental regulations	. If export si	Mo	l am the Prii	y y
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ease	print or type. (Form desig	gned for use on elite (12-pitch) type								n Approved	I. OMB No	. 2050-003
U	NIFORM HAZARDOUS WASTE MANIFEST	Generator ID Number	2. P	age 1 of		ncy Respons		4. Manifest		940	6 J	JK
1	Generator's Name and Mailin	LL	AN MINN		USEPA/ 324 NO	VELSICO PTH STR	LPINER	han mailing addres	ss) FUND 9	ine		
G	enerator's Phone: Transporter 1 Company Nan	19-7146	Mt 48116		ST. LOU	NO.		U.S. EPA ID	Number		MI 48	1000
	JS Ecology Mich							1		74259	565	
	Transporter 2 Company Nan							U.S. EPA ID N	lumber			
	Designated Facility Name ar							U.S. EPA ID N	Number			
6	I.S. ECOLOGY MICH 620 GEORGIA.ST DETROIT					TA11 488	211	T	MIDO	74259	565	
ć	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tion (including Proper Shipping Name, H	Hazard Class, ID Number,			10. Conta	iners	11. Total	12. Unit	13	. Waste Cod	des
	and Packing Group (if		in Normania			No.	Туре	Quantity	Wt./Vol.	-	Dote	Total
_	X CHLOROFORM	WAZARDOUS WASTE, LIOU W), IJ, PG III	III, N.O. II (DENGLINE,			1	TT	9152	3	D028	D029	
	2.											
F	3.			_		-						\vdash
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1	A self-respondent designation of the self-respondent self-resp	ns and Additional Information										
		na D040 and D043	TURE	F &	25							
1	marked and labeled/place Exporter, I certify that the	OR'S CERTIFICATION: I hereby decla arded, and are in all respects in proper contents of this consignment conform	condition for transport according to the terms of the attached EP.	g to appli A Acknow	icable interna vledgment of	ational and na Consent.	tional govern	mental regulations	ipping nam If export st	e, and are cl	assified, pac I am the Pri	kaged, mary
G	enerator's/Offeror's Printed/T	The second secon	-R 262,27(a) (If I am a large qu		nerator) or (b gnature) (IT I am a sm		enerator) is true.			onth Da	
1 1	6. International Shipments	Import to U.S.		ort from	U.S.	Port of e		54.30	1	16	CIP	
	ransporter signature (for exporter Acknowledgme					Date leav	ving U.S.:					
	ransporter 1 Printed/Typed Na			Sig	gnature	21	11	1		Mo	onth Da	y Year
-	ransporter 2 Printed/Typed Na	ame		Sin	gnature	al	4	Em.] Z	onth Da	ay Year
					,,,,,,,						1	
-	8. Discrepancy											
1	8a. Discrepancy Indication Sp	pace Quantity	Туре			Residue		Partial Re	ection		L Full Re	ejection
1	8b. Alternate Facility (or Gene	erator)			Man	ifest Referenc	e Number:	U.S. EPA ID I	Number			
			10					ű.				
F 1	acility's Phone: 8c. Signature of Alternate Fac	cility (or Generator)						1		N	fonth D	ay Yea
1 F 1 1 1 1	0 Hazardoue Masta Danet &	Management Method Codes (i.e., codes	e for hazardoue wasta treatmon	t dienocc	al and racin	ling systems						
1	a, mazardous yvaste Report i	vanagement wethod Codes (i.e., codes	i ioi nazaruous waste treatmen	t, disposa	а, апо гесус	miy systems)		4.			_	
	H077				4.0		120					
_	Designated Facility Owner rinted/Typed Name	or Operator: Certification of receipt of h	nazardous materials covered by		ifest except gnature	as noted in Ite	m 18a			M	Ionth Da	ay Year
				1						1		

	int or type. (Form design	ned for use on elite (12-pitch) typewriter.)	2. Page 1 of	3 Emerge	ncy Respon	se Phone	A Manifee	Forr	n Approved	d. OMB No	2050-00
	ASTE MANIFEST	MID000722439		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00) 510			166		7 J	JK
702 BR Gene	enerator's Name and Mailir arator's Phone:	LL UITE 120 10-7140	Mi 4811	6		VELSICA ETH STR	LPINER	than mailing addr	ess)			880
	ansporter 1 Company Nam							U.S. EPA ID	Number			
	Ecology Michi									74259	565	
1: 116	ansporter 2 Company Nam	е						U.S. EPA ID	Number			
8. De	esignated Facility Name an	d Site Address						U.S. EPA ID	Number			
0.S 652 DE	ECONOMICA TROTT ity's Phone:	IGAN, INC.				ME 48	211	1		74259	565	
9a. HM		on (including Proper Shipping Nar	me, Hazard Class, ID Number,			10. Conta	ainers Type	11. Total Quantity	12. Unit Wt./Voi.	13.	. Waste Cod	es
X	CHLOROFORM	AZARDOUS WASTE, LI 0, 9, PG NI	OUID, N.O.S (BENZE)	NE,		1	TT	9941	G	D018	D019	D022
	3.											
E	4,											1
											7	-
4	marked and labeled/placar Exporter, I certify that the of I certify that the waste min	R'S CERTIFICATION: I hereby of ded, and are in all respects in pro- contents of this consignment confi mization statement identified in 4	oper condition for transport acco	ording to applic I EPA Acknowl e quantity gene	able internat ledgment of (erator) or (b)	ional and na Consent	tional governn	nental regulations	ninning name	ipment and I	ssified, pack am the Prim	aged, ary
Gene	rator's/Offeror's Printed/Ty	ped Name	MIKEN	Sign	nature	13	2	Far	11551	Mo	nth Day	1 10
16. ln	ternational Shipments	Import to U.S.		Export from U	.S.	Port of each						
17. Tr	ansporter Acknowledgmen											
	porter 1 Printed/Typed Nar	15m Mills	>		nature	Jon	W.	les		Mo	nth Day	Year
Irans	porter 2 Printed/Typed Nar	ne		Sign	nature					Mo I	nth Day	Year
18. Di	screpancy				-9							
18a. D	Discrepancy Indication Spa	ce Quantity	Туре			Residue est Reference	Mumban	Partial Re	ection	. 003	Full Rej	ection
18b. A	Alternate Facility (or General	ator)			Marine	st Reference	e Number.	U.S. EPA ID I	Number			
Facilit	y's Phone: Signature of Alternate Facil	ty (or Generator)								Tue	onth Do	1/2-
										Mc	onth Day	Yea
19. Ha	azardous Waste Report Ma	nagement Method Codes (i.e., co	odes for hazardous waste treatn	ment, disposal	and recyclin	g systems)		To-				
	H077	2,		3.				4				
	esignated Facility Owner or d/Typed Name	Operator: Certification of receipt	of hazardous materials covered			noted in Iter	n 18a			- 67	uth 6	
Tirrice	- Theo ignie			aign	ature					Mo	nth Day	Year

ease p	rint or type. (Form desig	ned for use on elite (12-pitch) typewrite								d. OMB No	. 2050-003
٧	IFORM HAZARDOUS VASTE MANIFEST	1. Generator ID Number	2. Pa		Emergency Response	8510	4. Manifest	229	^{umber} 017	9 J	JK
5. G	enerator's Name and Maili	ng Address		G	enerator's Site Address	(if different th	an mailing addres	SUNDS	(TE		
OB	erator's Phone:		MI 48116	3	24 NORTH STRE T. LOUIS					Mi 48	880
6. Ti	erator's Phone: ransporter 1 Company Nan	ne		_			U.S. EPA ID N	Number		-	
	Ecology Michi						1	MIDO	74259	565	
7. T	ransporter 2 Company Nan	ne					U.S. EPA ID N	lumber			
	esignated Facility Name ar						U.S. EPA ID N	Number			
	S ECOLOGY MICH 20 GEORGIA ST.	IGAN, INC.						T CLED O	-		
DE	TROIT				M) 482	11		MIDO	74259	565	
Fac	ility's Phone: (313) 571	7140					A .	,			
9a.	1 44 11 24 114	ion (including Proper Shipping Name, Hazard	Class, ID Number,		10. Contain		11. Total	12. Unit	13	. Waste Cod	es
HM		AZARDOUS WASTE, LIQUID, N	I A C MELTECKE		No.	Type	Quantity	Wt./Vol.			
X	CHLOROFORM	0, 0, PG III	LOS (BENZENE,		1	11	9278	G	D018	D019	D022
	2.										
-	3.										
	4.										
		ns and Additional Information									
	Also conta	Ins DO40 and DO43 DR'S CERTIFICATION: I hereby declare tha	t the contents of this consi	gnment are	fully and accurately de-	scribed above	e by the proper sh	ipping name	e, and are cl	assified, pac	kaged,
	marked and labeled/placa Exporter, I certify that the	rded, and are in all respects in proper condit contents of this consignment conform to the himization statement identified in 40 CFR 262	ion for transport according terms of the attached EPA	to applicat Acknowled	le international and nati gment of Consent.	onal governm	nental regulations.	If export sh	ipment and	I am the Prin	nary
	erator's/Offeror's Printed/Ty	rped Name	EDA	Signat	ure	F31	450	soft.	Me	onth Day	y Year
	International Shipments nsporter signature (for expo	Import to U.S.	Expo	ort from U.S	. Port of en						
	Transporter Acknowledgmer				4	9					
Tran	sporter 1 Printed/Typed Na			Signat	ure		100		Mo	onth Day	y Year
		Durham			Tas	OR	Lefrer	-	17	11/1/	13
Tran	nsporter 2 Printed/Typed Na	ime		Signat	ure				Mo	onth Day	y Year
-	Discrepancy										
18a	Discrepancy Indication Sp	ace Quantity	Туре		Residue		Partial Rej	ection		Full Re	jection
18b	Alternate Facility (or Gene	rator)			Manifest Reference	Number:	U.S. EPA ID N	lumber			

Fac	ility's Phone: Signature of Alternate Fac	Illh. (or Consected)							-	and D	. Vee
100	Signature of Alternate Fac	inty (or Generator)							IV	onth Da	y Year
18b Faci 18c.	Hazardous Waste Report N	lanagement Method Codes (i.e., codes for ha	azardous waste treatment,	disposal, a	nd recycling systems)						
1.	H077	2.		3.			4.				
20.	Designated Facility Owner	or Operator: Certification of receipt of hazard	ous materials covered by t	he manifes	t except as noted in Item	18a				-	
Prin	ted/Typed Name			Signat	ure				M	onth Day	y Year
									1	1	1

Ple	ase print	or type. (Form desig	ned for use on elite (12-pitc									. OMB No.	. 2050-0039
1	WAS	ORM HAZARDOUS STE MANIFEST	Generator ID Number		2. Page 1 of	(8)	ency Response	8510	The same of	229	018	0 J	JK
П	5. Gene	erator's Name and Mailir	g Address			Generator	s Site Address	(if different th	nan mailing addres	s) FUND 9	TE:		
	ERIG	HTCM tor's Phone: (248) 2		MI 46110	5	ST. LOL	RTH STRE	E				MI 48	SNEO
П	6. Trans	sporter 1 Company Nam	e						U.S. EPA ID N				
П		Ecology Michi									7.4259	565	
П	7. Trans	sporter 2 Company Nam	е						U.S. EPA ID N	lumber			
	8. Desid	nated Facility Name an	d Site Address						U.S. EPA ID N	lumber		_	
П	U.S.	ECOLOGY MICH							5.6. El 1115 11	unibor.			
Н	6520 DETE	GEORGIA ST					ME 482	101		MIDO	74259	565	
		s Phone: (313) 571	-7140				NAL VALUE	311					
	9a. HM	9b, U.S. DOT Description and Packing Group (if a	on (including Proper Shipping Na	ame, Hazard Class, ID Number,		_	10. Contai		11. Total	12. Unit Wt./Vol.	13	. Waste Cod	es
1	1 1111		• "	IQUID, N.O.S. (BENZE)	IF.		No.	Туре	Quantity		D018	D019	D022
GENERATOR	^	CHLOROFORM), 9, PG III	and the same				*1	9228	G	D028	0029	0039
GENE	2	2.											-77
	- 3					-							
II.													
П	4					-							
П													
Ш													
П			s and Additional Information										
M			is DO40 and DO	43									
Н				7	8								
	ma Ex	arked and labeled/placar porter, I certify that the	rded, and are in all respects in p contents of this consignment cor	declare that the contents of this roper condition for transport according to the terms of the attached	rding to appli EPA Acknow	cable international	ational and nat Consent.	ional governn	nental regulations.	pping name If export sh	e, and are cla ipment and	assified, paci am the Prin	kaged, nary
Ш		ertify that the waste min tor's/Offeror's Printed/Ty		40 CFR 262.27(a) (if I am a large		nerator) or (b inature) (if I am a sma	all quantity ge	nerator) is true.		Mr	onth Day	v Year
*	Contra	or a director of fillings (y	A + To F	Grass A	1		D	4	For in	SER		2 1	10
INT'L	1	mational Shipments orter signature (for expo	Import to U.S.		Export from	U.S.	Port of en Date leav						
	_	sporter Acknowledgmen				1			-				
ORT	Transpo	rter 1 Printed/Typed Na	me		Sig	nature	-	- 12"	111 /		Mo	inth Day	Year
VSP(Transno	orter 2 Printed/Typed Na	5116/e	y	Cia	nativo	all	Ba	las		1	017	1/3
TRANSPORTER	Папари	itel 2 Filited Typed Na	ille.		1	nature			U		1	onth Day	Year
4	18. Disc	repancy											-
	18a, Dis	screpancy Indication Spa	ace Quantity	Туре			Residue		Partial Reje	ection		Full Re	iection
				7,000									12.22211
7	18b Alle	ernate Facility (or Gener	ator)			Mani	fest Reference	Number:	U.S. EPA ID N	umber	_	1	100
듣	.sw.rat	and a doing for outler	TATE OF THE PARTY						O.O. LIAIDIN	arrib'01			
FAC	Facility's	s Phone:							1				
DESIGNATED FACILITY	18c. Sig	nature of Alternate Faci	ity (or Generator)								M	onth Da	y Year
GNA	40.11	and and the same		and the second		1.271.5	(3)						
ESI	19. Hazi	ardous waste Report Ma	anagement Method Codes (i.e.,	codes for hazardous waste treatr	nent, disposa	ii, and recyc	ing systems)		14.				
1		H077							4.				
			r Operator: Certification of recei	pt of hazardous materials covered	by the mani	fest except a	as noted in Iter	n 18a					
	Printed/	Typed Name			Sig	nature					M	onth Day	y Year

Ple	ase pri	nt or type. (Form design	gned for use on elite (12-pitch) ty	pewriter.)						For	m Approve	d. OMB N	o. 2050-00		
1	W	FORM HAZARDOUS ASTE MANIFEST	Generator ID Number		2. Page 1 of		ncy Respons		4. Manifest	Tracking N	lumber		JJK		
	5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)											914			
	BRIGHTON Generator's Phone: (248) 219-7146 324 NORTH STREET ST. LOUIS								IVEN SUPER	ONL) S	MI 48500				
	6. Transporter 1 Company Name												-		
	US Ecology Michigan, Inc. MID074259565														
1	7. Transporter 2 Company Name U.S. EPA ID Number														
1	8. Designated Facility Name and Site Address														
1	U.S. ECOLOGY MICHISAN, INC.														
1	DET	DOEORGIA ST.								MIDO	74259	565			
1		y's Phone: (343) 574					Mt. 48211								
-	9a, HM	and Packing Group (if a	711				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.					
8	X	CHLOROFORM	AZARDOUS WASTE, LIQU 0, 9, PG III	ND, NO.S.(BENZE)	松 .,		1.	TT		G	D018 D019 D		0022		
GENERATOR									8504		DOZE	0029	0039		
¥		2.				-			0-1						
5															
l		3.							1 -						
										1 1		-	-		
ı		4.				-	-								
l						- 1									
L	77.0		s and Additional Information												
	E	xporter, I certify that the c	contents of this consignment conform mization statement identified in 40 CF	to the terms of the attached	able internati	or (b) (if I am a small quantity generator) is true.									
Ų.	-	2007	PIPE POR G	Sic Mill	1		10	2	File		1	nth Day	y Year		
I N	Transp	ernational Shipments orter signature (for export			Export from U.	S.	Port of en Date leavi								
IKANSPORIEK	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signafuse														
5	1	10410	6 6 7	1120	Signa	ature	- Prince		1		Mo	nth Day	Year		
2	Transpo	orter 2 Printed/Typed Nam	ne		Signa	ature					Mo	nth Day	/ Year		
=					1						1	1	1		
1		crepancy													
	18a. Dis	screpancy Indication Space	ce Quantity	Туре		R	esidue		Partial Reject	ction		Full Rej	iection		
	18b. Alt	ernate Facility (or Genera	itor)			Manifes	st Reference	Number:	U.S. EPA ID Nu	ımher		_			
3															
	Facility's Phone:														
5	18c. Signature of Alternate Facility (or Generator) Month Day										y Year				
18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 2. 3. 4															
í	1.	and a separation	2.	Tocardous maste pediffi	3.	and recycling	systems)		14.						
		11077													
	20. Desi	ignated Facility Owner or Typed Name	Operator: Certification of receipt of ha	azardous materials covered			noted in Item	18a							
	i inted/	Typeu Ivallie			Signa	ture					Mo	nth Day	Year		

Pleas	e print or type. (Form desig	gned for use on elite (12-pitch) typewriter.)						For	m Approve	d. OMB No	. 2050-0039		
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2, Page 1 of		ency Respon		4. Manifest	Tracking N	026	8 J	IJK		
1	5. Generator's Name and Maili	LL			USEPA	VELSICO	L PINE RA	nan mailing addres	mailing address) RISUPERFUND SITE					
	ROHTON enerator's Phone: (248) 249 7449 324 NORTH STREET ST. LOUIS										MI 48	650		
	6. Transporter 1 Company Name								lumber					
	US Ecology Michi									74259	565			
	7. Transporter 2 Company Name								lumber					
	8. Designated Facility Name and Site Address U.S. EPA ID Number													
1	U.S. ECOLOGY MICH 8520 GEORGIA ST. DETROIT	J.S. ECOLOGY MICHIGAN, INC. 1520 GEORGIA ST.							MID074259565					
	Facility's Phone:	7140				1971 -1954	-11							
	9a. 9b. U.S. DOT Descript and Packing Group (if	tion (including Proper Shipping Na any))	me, Hazard Class, ID Number,			10. Cont No.	Type	11. Total Quantity		13. Waste Codes				
OR -	K RO, NASSEZ, H CHLOROFORM	AZARDOUS WASTE, LI (6, 9, PG III	OUID, N.O.S.(BENZEN	Æ,		1	77	4	G	0018	0019	0022		
RAI								9108		D038	D029	0039		
GENERATOR	2.											1		
Ĩ									1					
	3.						V /							
	4.													
П												1		
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary													
	Exporter, I certify that the I certify that the waste mi	contents of this consignment con nimization statement identified in	form to the terms of the attached	d EPA Acknor e quantity ge	wledgment on nerator) or (of Consent.								
	Generator's/Offeror's Printed/T	yped Name	CIRPA	Si	gnature	50	2/	For # 3	Sec Pri		onth Da	ay Year		
	16. International Shipments	Import to U.S.		Export from	U.S.	Port of	entry/exit:				- 120			
	Transporter signature (for exp					Date lea	ving U.S.:							
별.	 Transporter Acknowledgme Transporter 1 Printed/Typed Na 	The state of the s		· Ci	gnature			75.0	_	M	onth Da	ay Year		
P. P.	Transporter 11 mileo Typed Ne	Billy		1		en	100	KE .		1	0 10	4 1 1 2		
TRANSPORTER	Transporter 2 Printed/Typed N	ame		Si	gnature			1		M	onth Da	ay Year		
	40 Disease													
	18. Discrepancy													
99	18a. Discrepancy Indication Space Quantity Type Residue Parti										Full R	ejection		
7	18b. Alternate Facility (or Gene	erator)			Mar	nifest Referen	ce Number:	U.S. EPA ID N	lumber					
CILIT	too. Thomaso I doing for cont	7						0.0.2.710	tombor					
FA	Facility's Phone:													
DESIGNATED FACILITY	18c. Signature of Alternate Fac	ality (or Generator)	ity (or Generator)							N	Month D	ay Year		
Sign	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
. DE	H077	2.		3.				4.						
1		or Operator: Certification of receip	ot of hazardous materials covere	ed by the mar	nifest except	as noted in It	em 18a							
	Printed/Typed Name			S	ignature					. N	Month Da	ay Year		

Plea	se pri		ned for use on elite (12-pitch) t	typewriter.)							. OMB No	. 2050-0039		
1		FORM HAZARDOUS ASTE MANIFEST	Generator ID Number	2. Page	(8)	ency Respons	8510	4. Manifest	229	045	7 J	JK		
H	5, Generator's Name and Mailing Address (if different than mailing address)													
	DEW	7827 NEMCO WAY SUITE 120 BERIGHTON Generator's Phone: (248) 219-7146 LET STATE VIOLENCE STATE OF THE STATE								MI ABUSED				
	6. 118	ansporter 1 Company Nam	18		U.S. EPA ID Number									
		Ecology Michig			U.S. EPA ID Number									
	8. De	8. Designated Facility Name and Site Address U.S. EPA ID Number												
Ш	6520 GEORGIA ST DETROIT MI 48211 MID074259										9565			
Н	Facility's Phone:													
	9a. HM	9b. U.S. DOT Descripti and Packing Group (if	ion (including Proper Shipping Name any))	e, Hazard Class, ID Number,	-	10. Conta	Type	11. Total Quantity	12. Unit Wt./Vol.	des				
1	X		ZARDOUS WASTE, LIG	UID, NOS (BENZENE,		1	TT	Addinity	G	Dota	0019	0022		
ATOF		CHLOROF OVEN	1, 9, FO III					8636	0	0026	D029	D039		
GENERATOR	-	2.				-	-					-		
- GE										4		-		
П		3.					-					-		
П		0.									-	-		
Н		4.												
П														
П	14. Special Handling Instructions and Additional Information													
	Also contains DO40 and DO43													
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
H	Gene	erator's/Offeror's Printed/Ty	yped Name		Signature			275 E	(A)		onth Da			
4	16.1	nternational Shipments	Frank to	7 8-104 77	_			- 54-	7/1	/	0 01	1/3		
INT	Tran	nsporter signature (for expo	Import to U.S. orts only):	L Export f	rom U.S.		ntry/exit: ving U.S.:							
	_	ransporter Acknowledgme	nt of Receipt of Materials		1									
ORI	Trans	sporter 1 Printed/Typed Na	ame		Signature	et 1	3.01	2		1	onth Da	y Year		
TRANSPORTER	Tran	sporter 2 Printed/Typed Na	ame		Signature		1	2		M	onth Da	ay Year		
TR									-		-4-			
1	_	Discrepancy Indication So	nana 🗍			1	-							
į,	18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection										Full Rejection			
	Manifest Reference Number: 18b. Alternate Facility (or Generator)								lumb ar					
	180.	Alternate Facility (or Gene	erator)					U.S. EPA ID 1	vumber					
FAC	Facil	lity's Phone:												
ATEC	18c.	Signature of Alternate Fac	cility (or Generator)							N	Nonth D	ay Year		
DESIGNATED FACILITY	19. H	Hazardous Waste Report N	Management Method Codes (i.e., co	odes for hazardous waste treatment, dis	sposal, and recyc	oling systems)	1							
DES	1,		2.	and the second s	3.			4.						
1	00.5	H077	or Occupies Codification of the Advisory	of horosdoup materials covered by the	manifest success	na melad !- #	non 10 a							
		Designated Facility Owner ted/Typed Name	or Operator: Certification of receipt	of hazardous materials covered by the	Manifest except Signature	as noted in Ite	108			N	lonth Da	ay Year		
11					1					1	1	1		

Plea	ise pri	nt or type. (Form desig	gned for use on elite (12-pitch) typ							For	n Approved	d. OMB No	. 2050-0039				
1	W	FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number	2	, Page 1 of		0) 510-	8510	4, Manifest	229	045	8 J	JK				
þ	792	5. Generator's Name and Mailing Address (if different than															
	Gene	enerator's Phone; Transporter 1 Company Name							U.S. EPA ID N	lumber		MII HO	000				
		JS Ecology Michigan, Inc.							II S EDAIDA	MID074259565 U.S. EPA ID Number							
		Transporter 2 Company Name															
	US	signated Facility Name ar	nd Site Address						U.S. EPA ID N	S. EPA ID Number							
	DETROIT Facility's Phone: (313) 571-7140								1	MILDOT #238DGJ							
	9a. HM	9b, U.S. DOT Descripti and Packing Group (if	ion (including Proper Shipping Name, any))	Hazard Class, ID Number,		-	10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13	13. Waste Codes 13. Waste Codes Are classified, packaged, and I am the Primary Month Day Year					
OR -	X	X 1RO, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S. (BENZET CHLOROFORM), 9, PG III					1	TT		G	D018		A COLOR				
GENERATOR		2							8425		DATED.	NUZG	L/A/SIB/				
E GE		L _i										-					
	3.																
		4.				10											
	14. S	pecial Handling Instruction	ns and Additional Information			_	-	<u></u>					1				
	1 8201-0 HAZARDONS WASTEWATER Also contains DO40 and DO43																
	15	57 TR-786															
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.																
							Street, Street										
INT'L	1	nternational Shipments	Import to U.S.		Export from U	U.S.	Port of e	ntry/exit:	- 12.4	der							
_	17. T	sporter signature (for exporter Acknowledgme	nt of Receipt of Materials				Date leav	ring U.S.,									
PORT	Trans	sporter 1 Printed/Typed Na	ame		Sign	nature	Jon	n h	1.00	-	M	onth Da	y Year				
TRANSPORTER	Trans	sporter 2 Printed/Typed Na			Sig	nature					M	onth Da	y Year				
1	18. D	Discrepancy															
	18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection											ejection					
- ALIT	18b.	Alternate Facility (or Gene	erator)			Manit	est Referenc	e Number:	U.S. EPA ID N	lumber							
FACI	Facili	ity's Phone:							1								
DESIGNATED FACILITY	18c.	18c. Signature of Alternate Facility (or Generator) Month Day Year															
ESIG	19. H	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)															
0		H077	2.		3.				4.								
		Designated Facility Owner ed/Typed Name	or Operator: Certification of receipt of	hazardous materials covered		ifest except a mature	s noted in Ite	m 18a			M	fonth Da	y Year				
	1	AND TOTAL			1						1	1	1				